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26111 7	26111 7590 10/18/2005		EXAMINER		
STERNE, KESSLER, GOLDSTEIN & FOX PLLC 1100 NEW YORK AVENUE, N.W. WASHINGTON, DC 20005			ROBERTS, BRIAN S		
			ART UNIT	PAPER NUMBER	
			2662		
			DATE MAILED: 10/18/2009	DATE MAILED: 10/18/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

## Disposition of Claims ## Application is pilsare pending in the application. ## Application of Jairney 10 are subjected to by the Examiner. ## Application Papers ## Application Papers ## Application is objected to by the Examiner. ## Application Papers ## Application is objected to by the Examiner. ## Application of Claims ## Application is objected to by the Examiner. ## Application of Certified copies of the priority documents have been received in Application in the Application is objected to by the Examiner. ## Application of Certified copies of the priority documents have been received in Application in the Application in the International Bureau (PCT Rule 17.2(a)). ## Attachment(s) ## Attachment(s) ## Attachment(s) ## Attachment(s) ## Attachment(s) ## Attachment(s) ## Application Papers ## Attachment(s) ## Attachment(s) ## Attachment(s) ## Attachment(s) ## Application Papers ## Attachment(s) ## Attachment(s) ## Application Papers ## Application Papers ## Application Papers ## Applicati			Application No.	Applicant(s)				
Examiner Brian Roberts 2662 This Action Summary	Office Action Summary		10/044,512	BIMS, HARRY				
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1)⊠ Responsive to communication(s) filed on 22 January 2002. 2a)☐ This action is FINAL. 2b)☑ This action is non-final. 3]☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4)☑ Claim(s) 1-6 is/are pending in the application. 4a) Of the above claim(s) is/are allowed. 6)☑ Claim(s) is/are allowed. 6)☑ Claim(s) is/are objected to. 8)☐ Claim(s) is/are objected to. 8)☐ Claim(s) is/are objected to by the Examiner. 10)☑ The psecification is objected to by the Examiner. 10)☑ The drawing(s) filed on 11 January 2002 is/are: a)☑ accepted or b)☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)☐ All b)☐ Some * ○☐ None of:	A SHC WHICI - Extens after S - If NO I - Failure Any re	PRIENT STATUTORY PERIOD FOR REPLY HEVER IS LONGER, FROM THE MAILING DA sions of time may be available under the provisions of 37 CFR 1.13 (IX 66) MONTHS from the mailing date of this communication. Deriod for reply is specified above, the maximum statutory period we to reply within the set or extended period for reply will, by statute, the ply received by the Office later than three months after the mailing	ATE OF THIS COMMUNICATION 6(a). In no event, however, may a reply be time rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
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DETAILED ACTION

1. Claims 1-6 have been examined.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 3. Claims 1-2 and 4-5 are rejected under 35 U.S.C. 102(e) as being anticipated by Gray et al. (US 6674403)
 - In reference to claim 1

Gray et al. teaches a mobile device (120) transmitting a signal and a plurality of access points (110) (repeaters) receiving the signal. A comparison of the actual signal strength data at each access point receiving the mobile device's (120) signal with the signal strength patterns of those access points (110) allow for a determination by the location and tracking manager (170) of the real-time location of the mobile device (120) within the defined space. Such analysis, when performed overtime, allows tracking of the mobile device within and among the locales. (column 12 lines 8-25)

In reference to claim 2

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In Figure 3B, Gray et al. further teaches generating and storing a signal strength map that indicates which access point is closest to the mobile device. (column 11 lines 6-9)

In reference to claim 4

Gray et al. further teaches the real-time position detection or motion tracking method can be applied to a communication system utilizing a standard such as IEEE802.11. (column 6 lines 20-25)

In reference to claim 5

Gray et al. teaches the mobile device (120) may include a cellular telephone, pager, or PDA. (column 6 lines 34-42)

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claim 3 is rejected under 35 U.S.C. 103(a) as being unpatentable over Gray et al. (US 6674403) in view of Balogh (US 2001/0024953) and further in view of Keever et al. (US 2003/012801)
 - In reference to claim 3

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Gray et al. teaches a method that covers substantially all limitations of the parent claim. Gray et al. further teaches using the location and tracking manager (170) to push services, data, or other content to the mobile device (120). (column 12 lines 25-29)

Gray et al. does not explicitly teach sending a packet with the destination address being the mobile device via the access point that is closet to the mobile device.

Balogh teaches selecting from a plurality of access points the access point closest to a mobile terminal based on the signal level. A connection is established between the selected access point and the mobile terminal in order to transfer data such as IP packets containing a destination address. [0040-0042]

It would have been obvious to a person of ordinary skill in the art at the time of the invention to modify the method of Gray et al. to include sending a packet with the destination address being the mobile device via the access point that is closet to the mobile device. as taught by Balogh because it allows for the system (100) to increase the probability of a successful transmission by pushing data to the mobile device via the access point with the strongest signal and that is closet to the mobile device as compared to an access point with a weaker signal that is farther from the mobile device.

The combination of Gray et al. and Balogh teaches a method that covers substantially all limitations of the parent claim.

The combination of Gray et al. and Balogh does not explicitly teach setting a switch port associated with the repeater.

In Figure 1, Keever et al. teaches a router (110) connected to a plurality of access points for routing packets from the network to the user nodes via an access

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point (120). The router inherently sets a port assigned to the access point to route packets via the access point.

It would have been obvious to a person of ordinary skill in the art at the time of the invention to modify the method of the combination of Gray et al. and Balogh to include setting a switch port assigned to the repeater as taught by Keever et al. because it allows packets containing a destination address from the system (100) to be routed to the selected access point (110) for transmission to the mobile device (120) associated with the destination address.

- 6. Claim 6 is rejected under 35 U.S.C. 103(a) as being unpatentable over Gray et al. (US 6674403) in view of Keever et al. (US 2003/012801)
 - In reference to claim 6

In Figure 1, Gray et al. teaches a system that includes:

- Mobile devices (120) with transmitters to transmit packets wirelessly
- A plurality of access points (110) coupled with mobile device (120) where the
 access points receive packets wirelessly transmitted from the mobile device
 and forwards the received packets with the received signal strength
 indications to perform location tracking of the mobile stations (column 12 lines
 8-25)

Gray et al. does not explicitly teach a switch coupled to the repeaters to receive forwarded packets from the repeaters.

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In Figure 1, Keever et al. teaches a router (110) (switch) coupled to a plurality of access points (120) to receive packets from the access points (120).

It would have been obvious to a person of ordinary skill in the art at the time of the invention to modify the system of Gray et al. to include a router (switch) coupled to the access points (repeaters) to receive forwarded packets from the access points (repeaters) because it allows the packets received by the plurality of access points (110) to be multiplexed onto a single channel for transmission to the system (100) as shown in Figure 1 of Gray et al.

Conclusion

- 7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure:
 - Elson et al. (US 2003/0012168) teaches a low-latency multi-hop ad hoc wireless network.
 - Willins et al. (US 2003/0021250) teaches a blue tooth out-of-band management and traffic monitoring for wireless access points.
 - Feder et al. (US 6522881) teaches a method and apparatus for selecting an access point in a wireless network.
 - Juitt et al. (US 2003/0087629) teaches a method and system for managing data traffic in wireless networks.
 - Carter (US 2003/0146835) teaches a method of object location monitoring within buildings.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brian Roberts whose telephone number is (571) 272-3095. The examiner can normally be reached on M-F 8:30-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hassan Kizou can be reached on (571) 272-3088. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

BSR 10/13/2005

> JOHN PEZZLO PRIMARY EXAMINER